

ABSTRACT OF THE DISCLOSURE

A printhead (10) forms an image onto a photosensitive medium (22) by exposing pixels in a succession of exposures. The printhead (10) has a housing with a first position for an illumination array (20) of LED emitters (16), a second position for a lens array of lens elements (28) and a light-guiding array (26) of uniformizer elements (34), arranged within a corresponding array of cavities extended between the first and second positions (32, 46). For each pixel exposed on the photosensitive medium (22), a single LED light emitter (16) in the illumination array (20) provides light into a single corresponding uniformizer element (34) in the light-guiding array (26), which directs light to a single corresponding lens assembly (38) of the lens array (28).